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Randall, C. (1977). Teratogenic effects of *in utero* ethanol exposure. In *Alcohol and Opiates* (K. Blum, Ed.), pp. 91–107. Academic Press, New York.

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m	meter	M	molar	ip	intraperitoneal
cm	centimeter	mM	millimolar	iv	intravenous
mm	millimeter	μM	micromolar	po	oral
μm	micrometer	N	normal	LD50	median lethal dose
nm	nanometer	Ci	Curie	LC50	medial lethal concentration
kg	kilogram	$\bar{x}$	mean	Hz	hertz
g	gram	ppm	parts per million	°C	centigrade
mg	milligram	cpm	counts per minute	sec	seconds
μg	microgram	dpm	disintegrations per minute	min	minutes
ng	nanogram	sc	subcutaneous	hr	hours
ml	milliliter	ic	intracutaneous	SD	standard deviation
μl	microliter	im	intramuscular	SE	standard error
mol	mole			TLV	threshold limit value

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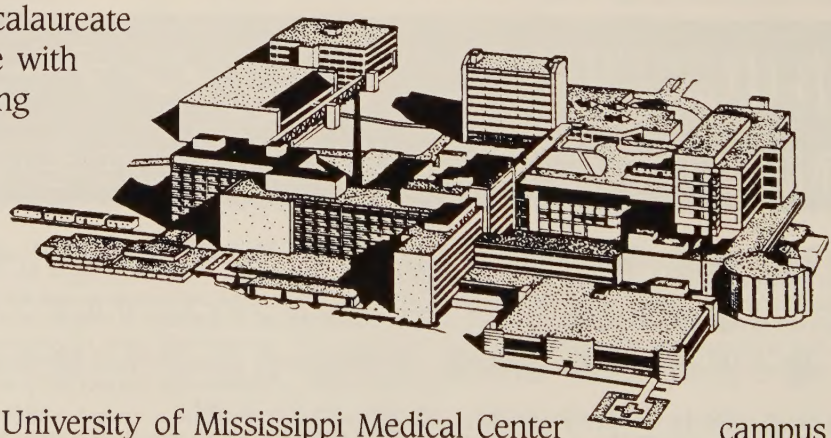

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The U.S. Environmental Protection Agency is seeking highly qualified candidates for a senior executive level position, Director of the Environmental Criteria and Assessment Office, Office of Health and Environmental Assessment, located in Cincinnati, Ohio. This office, a component of EPA's Office of Research and Development, has major responsibilities in the agency for the scientific assessment of the risks imposed by environmental pollutants on human health and the environment. The office serves as a focal point for the preparation of scientific risk assessments and for providing data, advice, and information to support other agency offices which have responsibility for making regulatory decisions regarding the control of environmental hazards in the United States.

Applicants should have a degree in the health or life sciences, medicine, or a related field, and professional experience demonstrating scientific competence and leadership as well as management experience. Experience in human health risk assessment, related research, or public health protection is desirable. The submission procedures and the technical and executive qualifications described in the formal Vacancy Announcement must be met. Applications must be postmarked by September 25, 1990. Call or write for a copy of the announcement to:

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The Health Effects Institute Request for Applications for Research Funds

The Health Effects Institute announces its second set of Requests for Applications (RFAs) of 1990.

The Health Effects Institute is a nonprofit corporation that supports studies to evaluate the health effects of automotive emissions. It is funded jointly by the U.S. Environmental Protection Agency (EPA) and the automotive industry. Current research is investigating the health effects of a wide variety of pollutants, including methanol, carbon monoxide, ozone, and diesel emissions.

Applications are now being solicited for research in the following areas:

RFA 90-1: Health Effects of Chronic Ozone Inhalation: Collaborative National Toxicology Program-Health Effects Institute Studies
Part B: Structural, Biochemical and Other Alterations

- Studies using rats chronically exposed to ozone for two years by the National Toxicology Program (NTP).

RFA 90-3: Ozone Interaction with Biological Macromolecules and Molecular Dosimetry

RFA 90-4: Epidemiologic Studies of the Health Effects of Long-Term Ozone Exposure

- Etiologic studies of preclinical disease, COPD, and lung cancer.
- Methods research in areas such as ozone exposure assessment for epidemiologic studies, and innovative study designs for the measurement of effects of long-term ozone exposure.

Preliminary applications are also being solicited for other research designed to assess health effects of automotive emissions.

Materials describing the Health Effects Institute, the preparations of applications, and more specific details of the research topics are available.

Requests and inquiries should be directed to:

Dr. Jane Warren, Director of Research
The Health Effects Institute
141 Portland Street, Suite 7300
Cambridge, MA 02139
Telephone: (617) 621-0266

Letters of intent for RFA 90-1 Part B and RFA 90-3 should be submitted no later than September 25, 1990; the deadline for letters of intent for RFA 90-4 is November 15, 1990; applications for RFA 90-1 Part B and RFA 90-3 will be accepted until October 29, 1990; applications for RFA 90-4 will be accepted until June 5, 1991. Preliminary applications will be accepted at any time.

The Health Effects Institute

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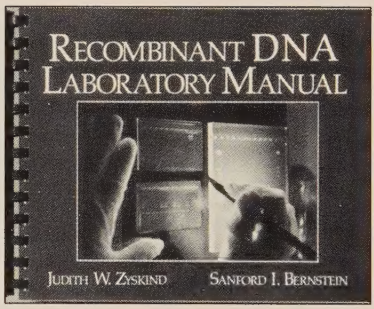

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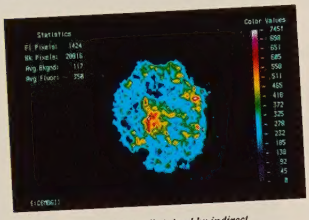

HIV-1RF infected CEM-SS cell stained by indirect immunofluorescence using anti-gp 120. (Courtesy of Dr. Jonathan T. Warren, National Institutes of Health)

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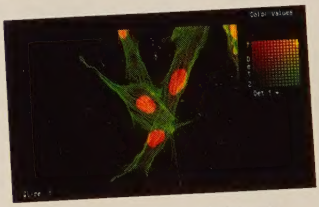

Optical slice (.5μ) of normal human diploid fibroblasts stained with NBD phallacidin showing actin filaments, and propidium iodide showing nuclear areas, using the ACAS confocal accessory. (Courtesy of Asmina H. Jiwa, Meridian Instruments, Inc.)

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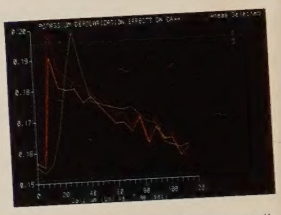

Transient increase in intracellular Ca^{2+} concentration induced by potassium depolarization in a hamster insulin-secreting tumor cell. (Courtesy of Dr. H. A. Persbadsingh, Lab for Cell Analysis, University of California, San Francisco, and Dr. Margaret H. Wade, Meridian Instruments, Inc.)

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